

10/589220

1 58192/S318

IAP11 Rec'd PCT/PTO 11 AUG 2006¹

ABSTRACT OF THE DISCLOSURE

Positron emitting compounds and methods of their production are provided. The
5 compounds have the formula: (F)_m G (R)_n wherein each R is a group comprising at least one carbon, nitrogen, phosphorus or sulfur atom and G is joined to R through said carbon, nitrogen, phosphorus or sulfur atom; G is silicon or boron; m is 2 to 5 and n is 1 to 3 with m + n = 3 to 6 when G is silicon; m is 1 to 3 and n is 1 to 3 with m + n = 3 to 4 when G is boron; and wherein the compound further comprises one or more counterions when the above formula is charged; and
10 wherein at least one F is 18F.

DBP/mac

15

MAC PAS695507.1-* 08/11/06 9:47 AM

20

25